

August 29, 1962

J. C. Sanders

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S O N D J F M A M J J A S O N D				J F M A M J J A S O N D				J F M A M J J A S O N D				J F M A M J J A							
B-1	Install and check-out			Start-up hot bleed			Pump maps Mark IX Pump	Start-up cycle variations			Start-up new reflector			Boost pump perf. Aerojet Pump			Start with syst. using boost pump		
B-3	Construction						Tank heat and cavitation 46,000 gallon tank	Pump Map Aerojet Pump			Parallel pump B operation			Advanced reactor with parallel pumps			Expansion for 15,000 mw		

IF FUNDS FOR B-3 ARE DELAYED TO SEPTEMBER, 1963, THEN THE SCHEDULES BECOME:

B-1	Install and construct	Start-up hot bleed	Pump maps Mark IX Pump	Start-up cycle variations	Start-up new reflector	Boost pump perf.	Start with syst. using boost pump	
B-3			Construction			Tank heating and cavitation 46,000 gallon tank	Pump maps Aerojet Pump	ⓑ Parallel Pumps

- Notes:
1. Start-up work includes chill down assessment and specification on tank shut-off valve manipulation.
 2. Tank heating, cavitation and tank pressurization are studied together.
 3. Pump mapping includes cavitation without simulated nuclear heat.
 4. Start-up cycle variations include modes for diluting hot gas and tests of heated bleed cycles.
 5. Schedule assumes that main emphasis of NERVA contractor will be switched to hot bleed cycle.
 6. Expansion for 15,000 mw includes larger tank, new engines, and advanced pumping systems.
 7. B Notes delay between the two schedules for the same work.

SEP 6 1962

From Lewis

To

NASA - Headquarters

Attn: P. G. Schwenk (NOP)

Subject: Transmittal of Tentative Work Schedules for B-1 and B-3
Nuclear Rocket Stands

Reference:

1. Please take the action indicated below:

- (A) Advise status.
- (B) For your information, proper action, and files.
- (C) For reply by your office.
- (D) Forward (on loan) (for our files).
- (E) Translate for our files.
- xx (F) There ~~(is)~~ (are) transmitted herewith the following:
- (G) The following visited us on dates given.
- (H) Hold for further information.
- (I) Copy of this letter enclosed with shipment.
- (J) Advise whether order will be placed soon.
- (K) Return catalogs and literature furnished by low bidder.
- (L) Return samples submitted with letter of award.
- (M) Send catalog and price list applying to general schedule.

Two (2) copies of subject schedule.

E. J. MANGANIELLO
E. J. Manganiello
Deputy Director

HHE HHS:kjw

DSC

BTL

Copies to: ✓ NASA Hqs. (NOP)
✓ Files
✓ Deputy Director
✓ AD&E Division
✓ NP Branch

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